Rosemount 5900S Still-pipe Array Antenna Insert Pipe

Benefits

- Fits any floating roof tank with an existing 8-in. (or larger) gauge still-pipe
- Provides for temperature, level measurement and water level in an existing still-pipe
- The gauge can be provided with a hinged array antenna allowing for full access to the insert pipe for hand dipping, sampling, etc.
- Reduce emissions
- Can be installed without taking the tank out of service
- Measure with highest precision non-contact radar
The Rosemount 5900S with array antenna is a premium non-contact radar level gauge for still-pipe measurement. Typical applications are crude oil tanks with floating roofs and gasoline/product tanks with or without floating roofs. Most of these tanks are equipped with a standard 8-in. still-pipe. This means adding a multi point temperature probe with water level sensor is not possible without extensive modification to the tank. Using the insert pipe allows for the addition of these auxiliary measurement devices without modifying the tank or taking it out of service. When coupled with the hinged array antenna, the insert pipe allows full access to the tank for hand gauging, sampling, etc.

Figure 1-1. Rosemount 5900s with Array Antenna Is Designed for Installation in New, Existing or Insert Still-pipes

Figure 1-2. Rosemount 5900s with Array Antenna, Hinged Hatch Version

<table>
<thead>
<tr>
<th>Specifications for Rosemount 5900S Still-pipe insert pipe</th>
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<tbody>
<tr>
<td><strong>Standard lengths</strong></td>
</tr>
<tr>
<td>15 meters (49 feet)</td>
</tr>
<tr>
<td>18 meters (59 feet)</td>
</tr>
<tr>
<td>21 meters (68 feet)</td>
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<tr>
<td>24 meters (78 feet)</td>
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<tr>
<td><strong>Material of construction</strong></td>
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<td>316 Stainless steel</td>
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</tbody>
</table>
Figure 1-3. Installation Overview

- Temperature probe (shown with optional water level sensor)
- 5900S gauge with array antenna (hinged array option shown)
- 5-in. insert pipe
- Deflector plate (eliminates false echos from tank floor)
- Standard anchor weight
- 8-in. (or larger) gauge pipe
- Pipe clamp (holds insert pipe section in place)
- Spacer (holds insert pipe in excenctric position)
- Top view
- Standard fixed array antenna
- Tank floor
- 200 mm (8 in.)